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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Cunningham et al..

Attorney Docket No.: STFUP155/S03-185

Application No.: 10/823,979

Examiner: Not Yet Assigned

Filed: April 13, 2004

Group: 2862

Title: NON-LINEAR SYMMETRIC SWEEP
SPECTRAL-SPATIAL RF PULSES FOR MR
SPECTROSCOPY AND IMAGING

Conformation No.: 5327

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on 09/10/04 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Signed: _____

Agnes F. Spence

**INFORMATION DISCLOSURE STATEMENT
37 CFR §§1.56 AND 1.97(b)**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. Since the Office has waived the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003, Applicants have not enclosed copies of the U.S. Patents cited. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114. Accordingly, it is

believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. STFUP155).

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

A handwritten signature in cursive script, reading "Henry K. Woodward". The signature is written in dark ink and is positioned above the printed name and registration number.

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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. STFUP155	Application No.: 10/823,979
	Applicant: Cunningham et al.	
	Filing Date 4/13/04	Group 2862

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	6,069,478	05/30/00	Hurd	324	307	11/24/97
	B	6,028,428	02/22/00	Cunningham et al.	324	314	04/09/98
	C	5,168,229	12/01/92	Hurd et al.	324	309	04/02/91
	D	4,940,940	07/10/90	Leroux	324	309	07/02/87
	E	4,760,336	07/26/88	Conolly	324	309	02/27/87

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	F	Conolly et al., "Variable Rate Selective Excitation", Journal of Magnetic Resonance, Vol. 78, 440-458, 1988.
	G	Cunningham et al., "Design of Symmetric-Sweep Spectral-Spatial RF Pulses for Spectral Editing", Magn Reson Med. 2004 Jul;52 (1):147-53.
	H	Cunningham et al., "Symmetric-Sweep Spectral-Spatial RF Pulses for Spectral Editing", May 2004, 1 page.
	I	Pauly et al., "Parameter Relations for the Shinnar-LeRoux Selective Excitation Pulse Design Algorithm", IEEE Transactions on Medical Imaging, Vol. 10, No. 1, March 1991.
	J	Star-Lack et al., "In Vivo Lactate Editing with Simultaneous Detection of Choline Creatine, NAA, and Lipid Singlets at 1.5 T Using PRESS Excitation with Applications to the Study of Brain and Head and Neck Tumors", Journal of Magnetic Resonance, Vol. 133, 243-254, 1998.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.